## **AMENDMENTS TO THE CLAIMS:**

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

## **LISTING OF CLAIMS:**

- 1. (Original) A friction stir welding method for a lap joint, in which a plurality of members are lapped and a welding tool is pressed into one of the members, while being rotated, to cause friction stir to achieve welding, characterized in that the method comprises using, as the welding tool, a welding tool having a small diameter projected part at a tip end of a shoulder, and pressing the projected part and the shoulder of the welding tool into one of the members.
- 2. (Original) The friction stir welding method according to claim 1, characterized in that the small diameter projected part is semispherical in shape.
- 3. (Original) The friction stir welding method according to claim 2, characterized in that a recess is provided on the shoulder around the projected part.
- 4. (Original) The friction stir welding method according to claim 1, characterized in that an outer peripheral surface of a tip end of the shoulder of the welding tool is inclined to define an inclined surface.

- 5. (Original) The friction stir welding method according to claim 1, characterized in that an outer peripheral surface of a tip end of the shoulder of the welding tool is rounded.
- 6. (Currently amended) The friction stir welding method according to <u>claim</u>

  <u>1any one of claims 1 to 5</u>, characterized in that the welding tool is pressed into one of the members and a welding boundary surface is activated and welded by plastic flow, in which such pressing causes the <u>one of the membersmember</u> to be discharged to an outer periphery of the welding tool.
- 7. (Original) A friction stir welding method for a lap joint, in which a plurality of members are lapped and a welding tool is pressed into one of the members, while being rotated, to cause friction stir to achieve welding, characterized in that a tip end of the welding tool is semispherical in shape.
- 8. (Currently amended) The friction stir welding method according to claim 7, characterized in that only a part of the semispherical shaped portion of the welding tool is pressed into the <u>one of the membersmember</u> to make a contact angle between the welding tool and a surface of the <u>one of the membersmember</u> an acute angle.
- 9. (Currently amended) The friction stir welding method according to <u>claim</u>

  <u>7</u> claims 7 and 8, characterized in that the welding interface is activated and welded by causing the one of the membersmember to undergo plastic flow.

- 10. (Original) A friction stir welding method for a lap joint, in which a plurality of members are lapped and a welding tool is pressed into one of the members, while being rotated, to cause friction stir to achieve welding, characterized in that a tip end of the welding tool is flat and an outer peripheral surface thereof is rounded.
- 11. (Currently amended) The friction stir welding method according to claim 10, characterized in that the whole of the flat portion of and only a part of the rounded portion of the welding tool are pressed into the <u>one of the members</u>.
- 12. (Currently amended) The friction stir welding method according to <u>claim</u>

  10 claims 10 and 11, characterized in that a welding interface is activated and welded by causing the <u>one of the membersmember</u> to undergo plastic flow.
- 13. (Currently amended) The friction stir welding method according to <u>claim</u>

  <u>1any one of the preceding claims</u>, characterized in that the welding tool is pressed into the <u>one of the members</u>member to cause friction stir of the member and then pulled out to perform spot welding.
- 14. (Currently amended) The friction stir welding method according to <u>claim</u>

  <u>1any one of claims 1 to 12</u>, characterized in that the welding tool is moved in a direction of welding in a state, in which the welding tool is pressed into the <u>one of the</u>

  <u>membersmember</u>.

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- 15. (Currently amended) The friction stir welding method according to <u>claim</u>

  <u>1any one of the preceding claims</u>, characterized in that lapped surfaces of the plurality of members are coated with soft metal.
- 16. (Original) The friction stir welding method according to claim 15, wherein the soft metal is any one of nickel, zinc, and copper.
- 17. (Currently amended) The friction stir welding method according to <u>claim</u>

  <u>1any one of claims 1 to 16</u>, characterized in that a trapezoidal member is provided on a surface of the <u>one of the members</u> on that side, into which the welding tool is pressed, to prevent an indentation produced due to pressing of the welding tool.
- 18. (Currently amended) The friction stir welding method-for-a lap joint, according to claim 1 any one of claims 1 to 17, characterized in that one of the members is provided on a lapped surface thereof with a groove, another the other of the members is provided on a lapped surface thereof with a projected part, and the projected part is fitted into and welded to the groove.
- 19. (Original) A friction stir welding apparatus that rotates a welding tool to cause friction stir to weld a plurality of members, characterized in that a tip end surface of the welding tool defines a convex-shaped and curved surface.

20. (Original) A friction stir welding apparatus that rotates a welding tool to cause friction stir to weld a plurality of members, characterized in that the welding tool comprises, at a central portion of a tip end thereof, a projected part having a smaller diameter than that of the welding tool and a tip end of the projected part defines a

curved surface.

21. (Original) A friction stir welding apparatus that rotates a welding tool to cause friction stir to weld a plurality of members, characterized in that the welding tool comprises, at a central portion of a tip end thereof, a projected part and a recess is formed around the projected part.

22. (Original) A friction stir welding apparatus that rotates a welding tool to cause friction stir to weld a plurality of members, characterized in that the welding tool comprises a tip end shaped to be trapezoidal in cross section transverse to an axial direction thereof.